

WHAT IS CLAIMED IS:

1. An electric power supply control apparatus comprising:
  - an electric power supply voltage detecting device for outputting a result of comparison of an electric power supply voltage and a predetermined voltage; and
  - a control device for controlling an object device and executing an interruption process to achieve a self resetting, upon receiving a signal from said electric power supply voltage detecting device, indicating that the electric power supply voltage is lower than said predetermined voltage; wherein said control device causes, in the interruption process, the electric power supply voltage detecting device to detect again the electric power supply voltage, and, in case the electric power supply voltage returns to said predetermined voltage or higher, terminates the interruption process thereby canceling the self resetting.
2. A control apparatus according to claim 1, wherein a time duration up to detecting again the electric power supply voltage by said electric power supply voltage detecting device in said interruption process is longer than a duration of an electrostatic discharge or a sudden noise.

3. A control apparatus according to claim 1,  
wherein said control means executes a self resetting,  
in case, as a result of the detecting again the  
electric power supply voltage by said electric power  
5 supply voltage detecting means in the interruption  
process, there is entered a signal indicating that  
the electric power supply voltage is lower than a  
predetermined voltage.

10 4. A control apparatus according to claim 1,  
wherein said predetermined voltage, which is a  
discrimination voltage of said electric power supply  
voltage detecting means, is so selected that a  
voltage drop, determined by a power supply backup  
15 capacity and a current consumption thereof, does not  
become lower than a minimum operation voltage of said  
control means within a period from a start of an  
interruption process by said control means to a start  
of a self resetting.

20 5. An electric power supply control apparatus  
comprising:  
an electric power supply voltage detecting  
device for outputting a result of comparison of an  
25 electric power supply voltage and a predetermined  
voltage; and  
a control device for controlling an object

device and executing an interruption process to achieve a self resetting, upon receiving a signal from said electric power supply voltage detecting device, indicating that the electric power supply  
5 voltage is lower than said predetermined voltage;

wherein said control device, upon starting an interruption process, confirmed whether a current operation mode is a predetermined operation mode, then, in case of the predetermined operation mode,  
10 causes the electric power supply voltage detecting device to detect again the electric power supply voltage, and, in case the electric power supply voltage returns to said predetermined voltage or higher, terminates the interruption process thereby  
15 canceling the self resetting.

6. A control apparatus according to claim 5, wherein said predetermined operation mode is a high-speed operation mode in which a normal control of the  
20 device cannot be executed if the device control is continued while a signal is entered from said electric power supply voltage detecting means, indicating that the electric power supply voltage is lower than said predetermined voltage.

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7. A control apparatus according to claim 5, wherein the detecting again the electric power supply

voltage by said electric power supply voltage detecting means is inhibited except in said predetermined operation mode.

5        8. A control apparatus according to claim 5,  
wherein said control device restarts a control for  
continuing the device control performed prior to the  
interruption process without detecting again the  
electric power supply voltage by said electric power  
10      supply voltage detecting means is not executed,  
except in said predetermined operation mode.

9. A control apparatus according to claim 5,  
wherein said control means executes a self resetting,  
15      in case, as a result of the detecting again the  
electric power supply voltage by said electric power  
supply voltage detecting means in the interruption  
process, there is entered a signal indicating that  
the electric power supply voltage is lower than a  
20      predetermined voltage.

10. A control apparatus according to claim 5,  
wherein said predetermined voltage, which is a  
discrimination voltage of said electric power supply  
25      voltage detecting means, is so selected that a  
voltage drop, determined by a power supply backup  
capacity and a current consumption thereof, does not

become lower than a minimum operation voltage of said control means within a period from a start of an interruption process by said control means to a start of a self resetting.

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